

IN THE CLAIMS

1. (Canceled)

2. (Canceled)

3. (Currently amended) A base station for use in a wireless network, the base station comprising:

a wireless air interface element for communicating with a wireless endpoint;

an Internet Protocol (IP) router for routing packets over an IP-based network; and

a processor for converting signaling messages received from the wireless air interface element to a common signaling format for transmission via the IP router.

~~The base station of claim 1 wherein the wireless air interface element comprises~~
is adapted to employ at least two different types of wireless air interfaces selected from the group consisting of Advanced Mobile Phone Service (AMPS), Code Division Multiple Access (CDMA), Time Division Multiple Access (TDMA), Global System for Mobile Communications (GSM), 802.11 and Universal Mobile Telecommunications System (UMTS).

4. (Currently amended) The base station of claim 4 3 wherein the IP router queries the IP-based network for forming a routing table for use in routing packets from other packet endpoints of the IP-based network.

5. (Original) The base station of claim 4 wherein the IP router routes packets from one base station to another base station.

6. (Original) The base station of claim 4 wherein the IP router uses an Open Shortest Path First (OSPF) based protocol for forming the routing table.

7. (Original) The base station of claim 4 wherein the IP router uses an Interior Gateway Routing Protocol (IGRP) based protocol for forming the routing table.

1 8. (Currently amended) A wireless infrastructure network comprising:
2 at least one base station for communicating information between a wireless
3 endpoint and an Internet Protocol (IP) based packet network, said at least one base
4 station being operable to employ at least two different types of wireless air interfaces
5 selected from the group consisting of Advanced Mobile Phone Service (AMPS), Code
6 Division Multiple Access (CDMA), Time Division Multiple Access (TDMA), Global
7 System for Mobile Communications (GSM), 802.11 and Universal Mobile
8 Telecommunications System (UMTS);

9 at least one server, which is accessed by the base station for establishing a
10 telephone call between the wireless endpoint and another endpoint; and

11 at least one router, coupled to the IP based packet network, for routing
12 communications transmitted from the base station to the server;

13 wherein the wireless infrastructure network does not include a mobile switching
14 center (MSC).

1 9. (Original) The wireless infrastructure network of claim 8 wherein the base
2 station comprises a router portion for routing packets through the base station to other
3 portions of the IP based packet network.

1 10. (Original) The wireless infrastructure network of claim 8 further comprising a
2 gateway server for coupling to a switched network.

1 11. (Original) The wireless infrastructure network of claim 8 further comprising a
2 gateway server for coupling to another IP-based network.

1 12. (Original) The wireless infrastructure network of claim 11 wherein the
2 gateway provides Internet access.

1 13. (Original) The wireless infrastructure network of claim 11 wherein the
2 gateway provides access to an intranet.

1 14. (New) The base station of claim 3, wherein the common signaling format
2 is ITU H.323.